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AVS 45 HDMI™ Matrix 4in/2out
with 4 inputs and 2 outputs
Model: 60817

ATTENTION! Please read the user manualcompletely and carefully. It is part of the product and includes important information for proper installation and use. Keep this guide to have it available, when there are uncertainties, or the product will be passed on.

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1 Description and Function:

Enlarge your Home Entertainment System with the AVS 45 HDMI™ Matrix. You can transmit signals of an audio-/video device to 2 HD output devices by using the splitter mode. And you can choose one from up to 4 connected source devices with all output devices by using the matrix mode.

Source Devices: sources like Receiver, DVD-Player, Blue Ray-Player, PCs, etc..
Output Devices: drains like monitors, video projectors, TVs, etc.

2 Intended Use:

Your AVS 45 is provided for audio-/video use only. It is not allowed to use the device in other ways than described in chapter “Description and Function”. Use this device only in dry interior rooms. The symbol with the house reminds you of that. If you do not attend to these regulations and notes on safety, it might causes fatal accidents, injuries and damages to persons and property.

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3 Parts Package:

- 1pc AVS 45 HDMI™ MATRIX 4 IN/2 OUT
- 1pc Power Supply 5V DC
- 1pc IR Remote Control
- 1pc User Manual

Front View:

Rear View:

4 Notes on Safety:

ATTENTION! Only skilled electricians may assemble and disassemble the housing of the product. There is a risk of electric shock and short circuit!

- Your product is not a toy and is not meant for children, because it contains small parts which can be swallowed and can injure when used inappropriately!
- Please install the system and devices attached to it in a way that persons cannot be injured, or objects not be damaged for example by dropping or stumbling.
- Please remove the packing materials, because children may cut themselves on them while playing. Furthermore, there is a risk of swallowing and inhalation of incidentals and insulating material.
- We recommend that the wall installation only be performed by qualified technicians.
- Remove the mains plug from mains during thunder storms an when not in use.
- Avoid places with high temperatures, or humidity, or places which might come into contact with water.
- Do not install the product close to openings of air conditioners, or at places with an excessive amount of dust or smoke.
- Do not install the product at places subject to vibration, or oscillation.
- Do not modify and alter the product and any accessories! Make sure you also read the Chapter “Warranty and Liability”. Do not use any damaged parts.
- Do not plug things like metal parts and unfitting cables into ventilation slots or ports. There is a risk of electric shock and short circuit!
- Keep enough space around all devices for a good ventlation and free motion and to avoid damages.
- Plug and unplug all cables slowly and carefully.
- During transport, observe the details listed in the Chapter “Specifications”, and implement measures suitable for transport, e.g. use the original package.
- For questions, defects, mechanical damages, malfunctions, and other functional problems which cannot be resolved by this guide, please contact your dealer for repair or replacement, as described in the Chapter “Warranty and Liability”.
- Mind chapter “Specifications“.
- Please also observe the terms of use described in the Chapter “Intended Use”.

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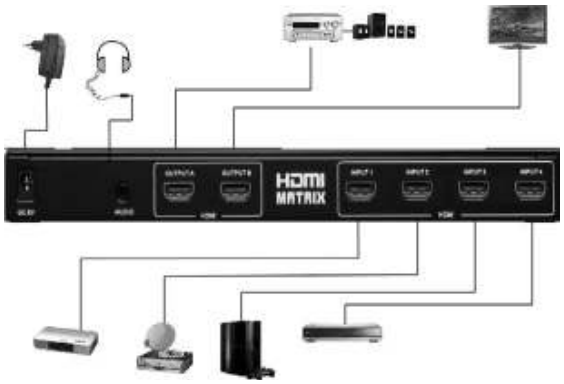
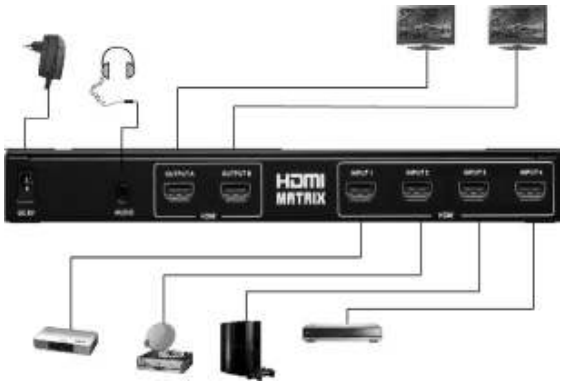
5 Connection, Implementing and Operation:

5.1 Possible Connections:

Home Cinema Use



Use in two rooms



5.2 Preparation:

To set the audio output caliber, read the manual of the source device.

1. Check the audio format of the movie or of the TV signals. (stereo or Dolby® Digital 5.1, 7.1 etc.)
2. Adjust the audio format of the source device (e.g. uncompressed PCM- or digital Dolby signals (Dolby 5.1, 7.1))
3. Choose the output of the respective audio format and the language by using the main menu.

- If the output devices do not support the adjusted audio format (HDTV, Receiver or speaker system), you will hear noise or no tone at all. In doubt make sure of having connected all components correctly.
- In case of using a home cinema system or another speaker system, we recommend to mute the speaker of your HD TV.
- The AVS 45 comes with a mode, named “highest common accordance“. By using the AVS 45 in splitter mode, the source device with the lowest standard will be automatically adjusted as primal device.
- We recommend choosing the same high resolution, color depth and audio format of the source device and output device.

5.3 Connection:

1. Connect the included power supply with the DC socket of the AVS 45.
2. Connect the outputs of the source device to the inputs of the AVS 45 by HDMI™ cable..
3. Connect the inputs of the HD output devices to the outputs of the AVS 45 by HDMI™ cable.
4. After connecting all cables, the Active A LED (or Active B LED) flashes red for the

outputs and the channel LEDs flashes green for the inputs.

5.4 Operation:

5.4.1 AVS 45 Matrix:

In this mode you can choose one source device per output device. **Matrix Mode**

In this mode you can transmit the signal of one source device to both output devices. **Splitter Mode**

5.4.2 Infra Red Remote Control:

- There are separate ON/OFF buttons for each output A and B and 4 separate selector buttons for the source device.

- Use the ON/OFF button of output A for starting transmitting the signals to output A. The LED indication (Active A) at the front side of the housing flashes on. By pushing this button again, the AVS 45 switches to standby mode. **Output A**
- Use the key buttons for choosing between the source devices.

- Use the ON/OFF button of output B for starting transmitting signals to output B. The indication LED at the front side of the housing (Active B) will flash on. By pushing this button again, the AVS 45 switches to standby mode. **Output B**
- Use the key buttons for choosing between the source devices.

- Use the RESET button on the remote control to set the AVS 45 into initial condition. **Resetting**

5.4.3 Manual Operation:

- The outputs A and B have seperated selection buttons for the source devices and for switching the AVS 45 ON and OFF.

- The SELECT/POWER button is a multifunctional button. **Output A**
- Activation: Push the SELECT/POWER button for 2 seconds to switch off the AVS 45. (Standby mode).
- Push it again for 2 seconds to restart the AVS 45.
- Selecting the source device: If you would like to choose the input channel manually, push the SELECT/POWER button again for 1 second. A green LED will flash on to identify the active channel.

- The SELECT/POWER button is a multifunctional button. **Output B**
- Activation: Push the SELECT/POWER button for 2 seconds to switch off the AVS 45. (Standby mode).

- Push it again for 2 seconds to restart the AVS 45.
- Selecting the source device: If you would like to choose the input channel manually, push the SELECT/POWER button again for 1 second. A green LED will flash on to identify the active channel.

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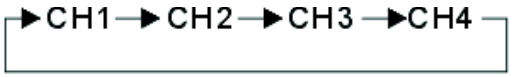
Resetting • Use the RESET button on the remote control to set the AVS 45 into initial condition.

This action is a circular function.



When you have choosed a channel, the dedicated LED flashes on.
E.g. Select channel 1 – LED CH1 flashes on.

5.5 Operation Mode Overview:

Starting Mode	supported	Not supported
Output A & Output B - adjusted to use one source device together - Splitter Mode	- The source device automatically adjusts to a audio- and video format, supported by all connected devices. The output device with the highest compatibility to the source device will be adjusted as primal device. *(mode of the highest common accordance)* - You can also adjust the audio-/video signal manually. Please make sure, the output devices support these adjustments.	- The audio-/video format of the source device must be adjusted first. - Please make sure, the output devices support these adjustments. *(e.g.You want the source device sending a 1080p video signal, although the output device only supportd up to 720p or 1080i. Then no picture will be shown.)*
Output A & Output B - adjusted to use several source devices - Matrix Mode	- The source device automatically adjusts to a audio- and video format, supported by the output devices. *(output A or output B)* - You can also adjust the audio-/video signal manually. Please make sure, the output devices support these adjustments.	- The audio-/video format of the source device must be adjusted first. - Please make sure, the output devices support these adjustments.

6 Care, Maintenance, Storage, and Transport:

ATTENTION! There is a risk of electric shock and short circuit!

- Remove the mains plug from mains! Use a dry linen cloth to clean your product, or use a slightly moist cloth for heavy stains. Look out for live cables of your device during cleaning!
- Attend avoiding risks of stumbling by installing the cables.
- Make sure there is sufficient space around the system to ensure proper ventilation, and check the clearance of the system, if necessary.
- Avoid places with high temperatures, humidity, or places which can become wet, also during care, maintenance, storage, and transport.
- Drill holes are still visible on the wall after the device and the wall installation kit is removed. After use for a longer time period, a spot may remain on the wall.
- Follow the safety symbols on the packing during transport.

7 Troubleshooting:

Problem	Action
No picture	- Make sure, the connection of source device and TV firstly works without AVS 45. - Check all connectors and cables for damages. Make sure, the device is switched on or reset the device.
Pictures without tone	- Mind conclusive connections of the cables. - Check, if the used cable only can transmit pictures like DVI cables. By using a DVI to HDMI™ adaptor, pictures are only transmitted, too. - If you connect the output devices with a source device, HDCP will lock the audio track or the complete function.
HDCP does not work during the first connection	- Push the RESET button for about 3 seconds or switch the AVS 45 off and on for one time.
Resolution does not reach 1080p.	- Make sure that the source devices (e.g. DVD Player) and output devices (e.g. a TV) support a resolution of 1080p. - Also check your HDMI™ cables, supporting 1080p.

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8 Specifications:

Operating voltage	230V AC / 50Hz (5V DC)
Outputs	2pc HDMI sockets, 1 pc 3.5mm stereo socket
Weight & Measurements:	980 g, 276 x 156 x 24 mm
Inputs	4 pc HDMI™ sockets
Resolution/color depth	up to 1080p (1920x1200), Full HD/12-Bit
Pulse frequency	up to 225MHz
Housing	Metal
Sockets	19 PIN HDMI™ gold plated
Max. cable length	10,0m without amplification
Supported formats	HD Dolby®, True HD, HDCP 2.0 copy protection, 3D

9 Warranty and Liability:

- The producer grants a 2 years guarantee.
- As the manufacturer has no influence on installation, warranty of the product only applies to the product.
- If any fault or damage is detected on your device, please contact your dealer and provide your sales slip or invoice as evidence of the purchase, if necessary. Your dealer will repair the fault either on site, or send the device to the manufacturer. You make the work of our technicians considerably easier, when you describe possible faults in detail – only then you can be assured that faults occurring only rarely will be found and repaired with certainty!
- The manufacturer is not liable for damages to persons or property caused by improper installation or operation not described in this guide. This includes, among others, any alteration and modification of the product and its accessories.
- Any use other than described in this user‘s guide is not permitted, and causes loss of warranty, loss of guarantee, and non-liability.
- We reserve our right for misprints and changes of the device, packing, or user‘s guide.

10 General Notes:

- HDMI, the HDMI Logo and High-Definition-Multimedia-Interface are registered brands or trademarks of the HDMI Licencing LLC.
- All Brands and trademarks are the property of their respective owners.
- The AVS 45 includes HDMI™ technology.
- PS3 is a brand label of Sony Computer Entertainment Inc.

11 Note on Waste Disposal:

In according to the European WEEE directive, electrical and electronic equipment must not be disposed with consumers waste. The consumer is committed by law to reposit electrical and electronic devices to public collecting points or to the dealer at the end of the devices lifetime for free. Particulars are regulated in national right. The symbol on the product, in the manual or at the packaging alludes to these terms. With this kind of application of used devices you achieve an important share to environmental protection.

12 CE-Declaration:

CE This device corresponds to EU directives 2004/108/EC and 2006/95/EC: With the CE sign the Goobay®, a registered trademark of the Wentronic GmbH ensures, that the product is conformed to the basic standards and directives. These standards can be requested online on www.wentronic.com. The mentioned directives replace all former national permissions in the European Union. All trademarks and registered brands are the property of their respective owners.